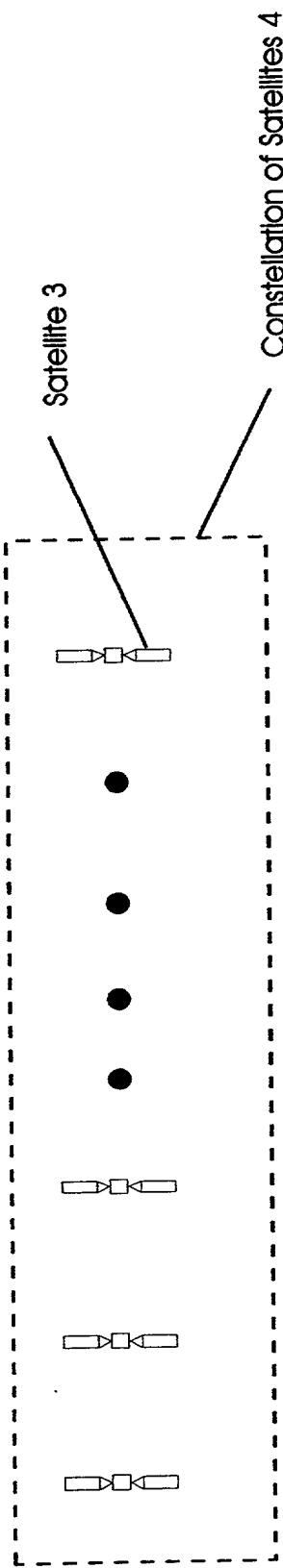


Figure 1 The mean and standard deviation of the total number of *Leptospiral* seroconversions per year.



Constellation of Satellites 4

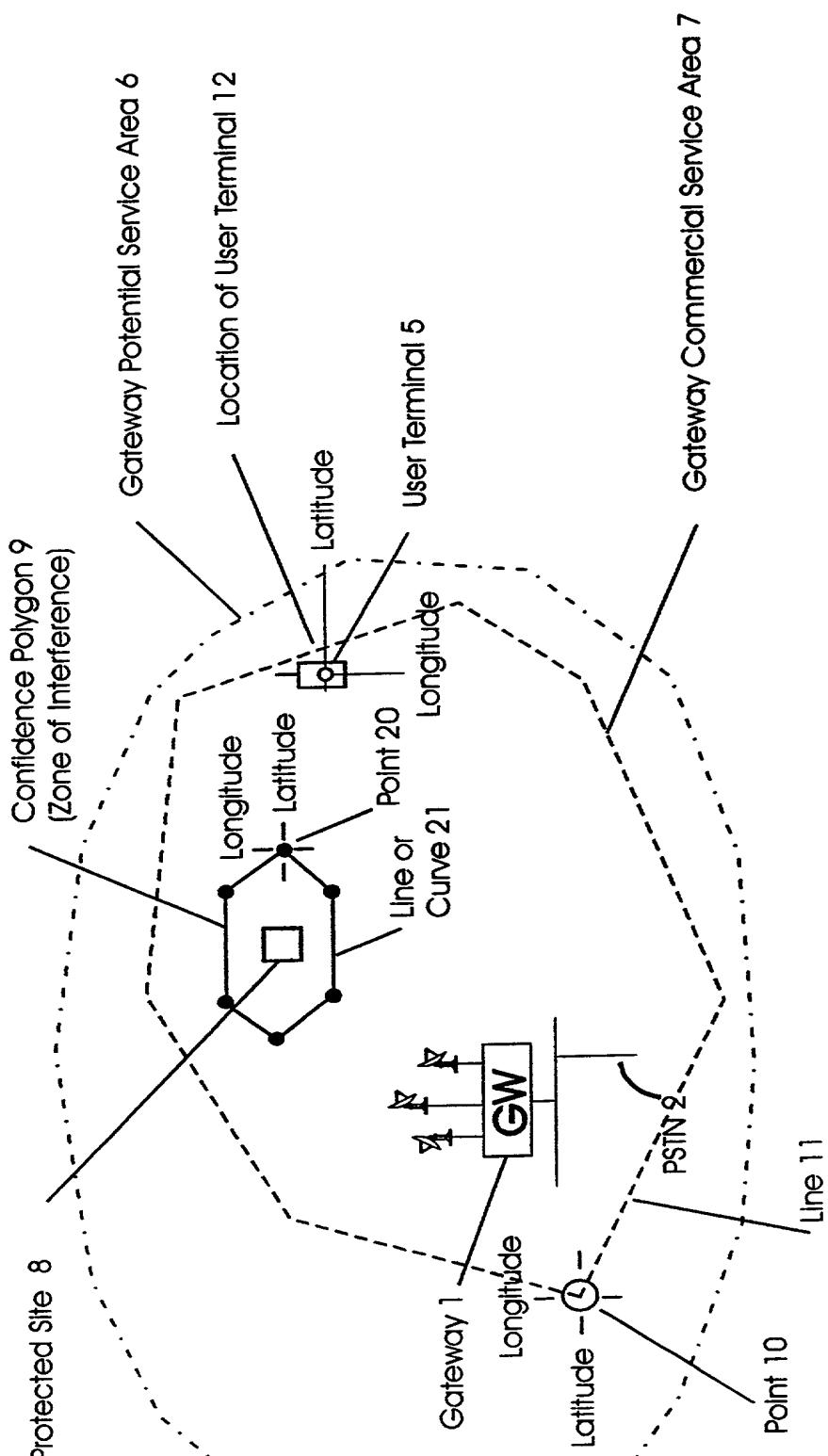


Figure 2

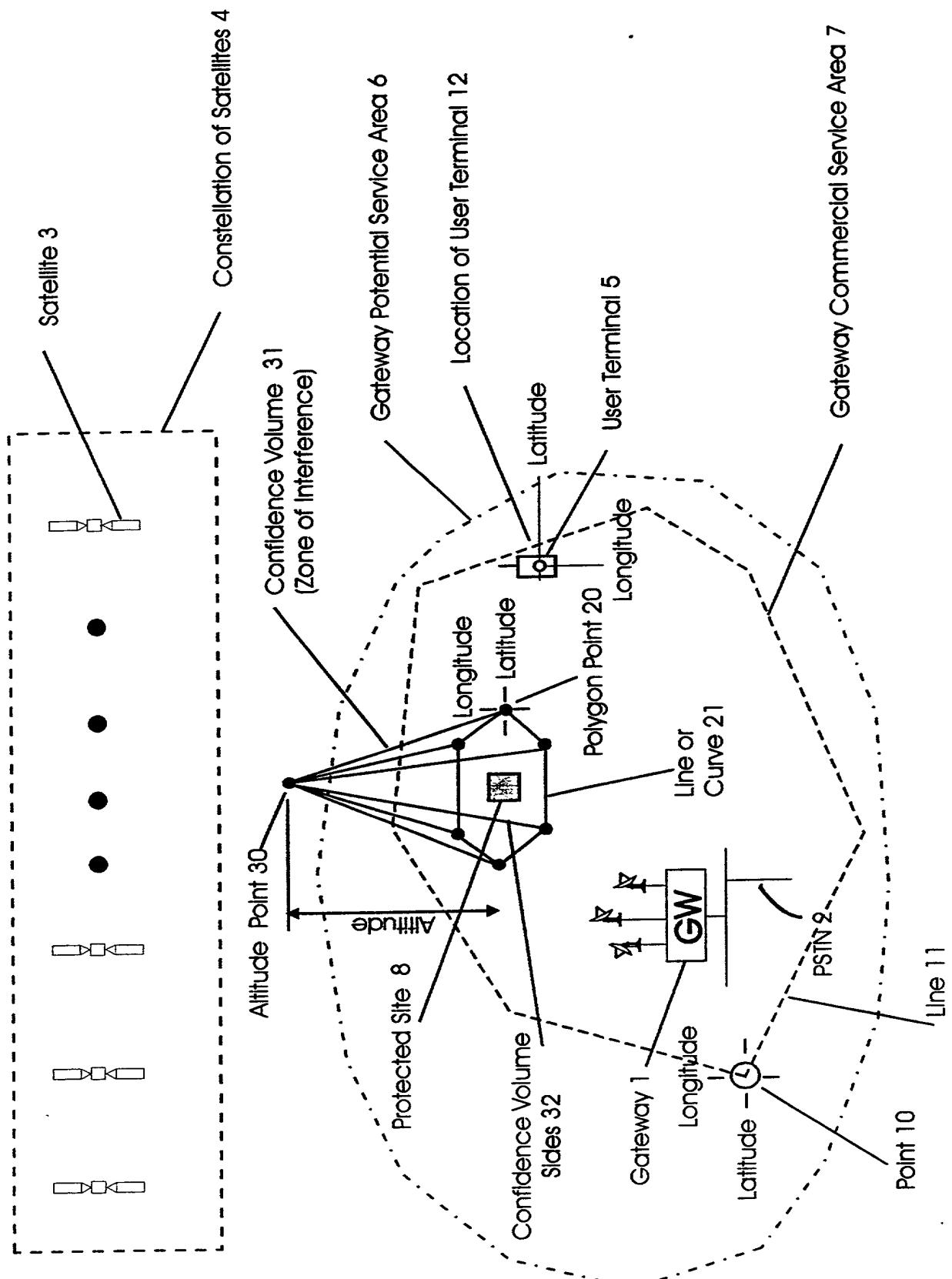


Figure 3

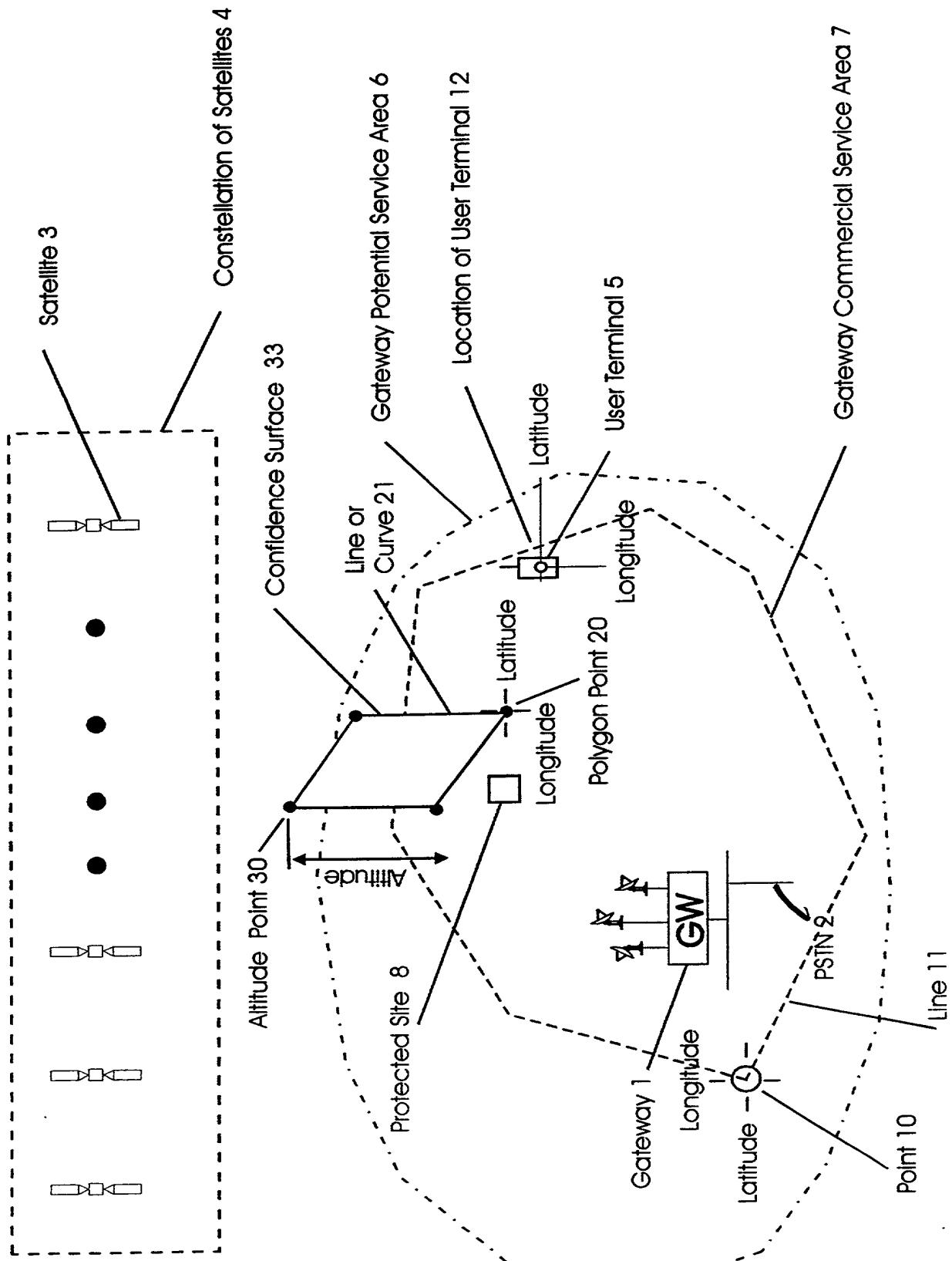


Figure 4

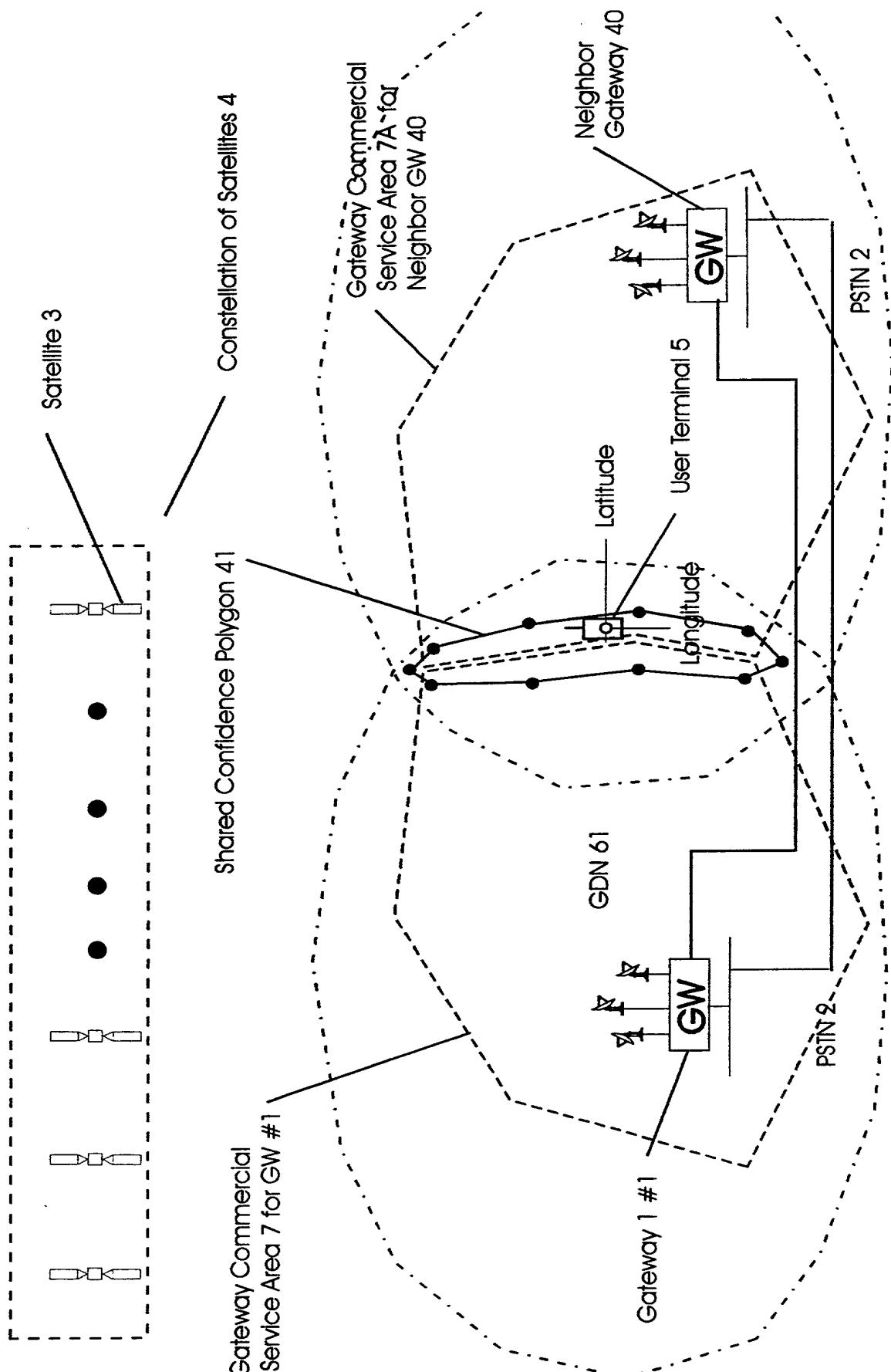


Figure 5 The effect of the number of nodes on the performance of the proposed scheme.

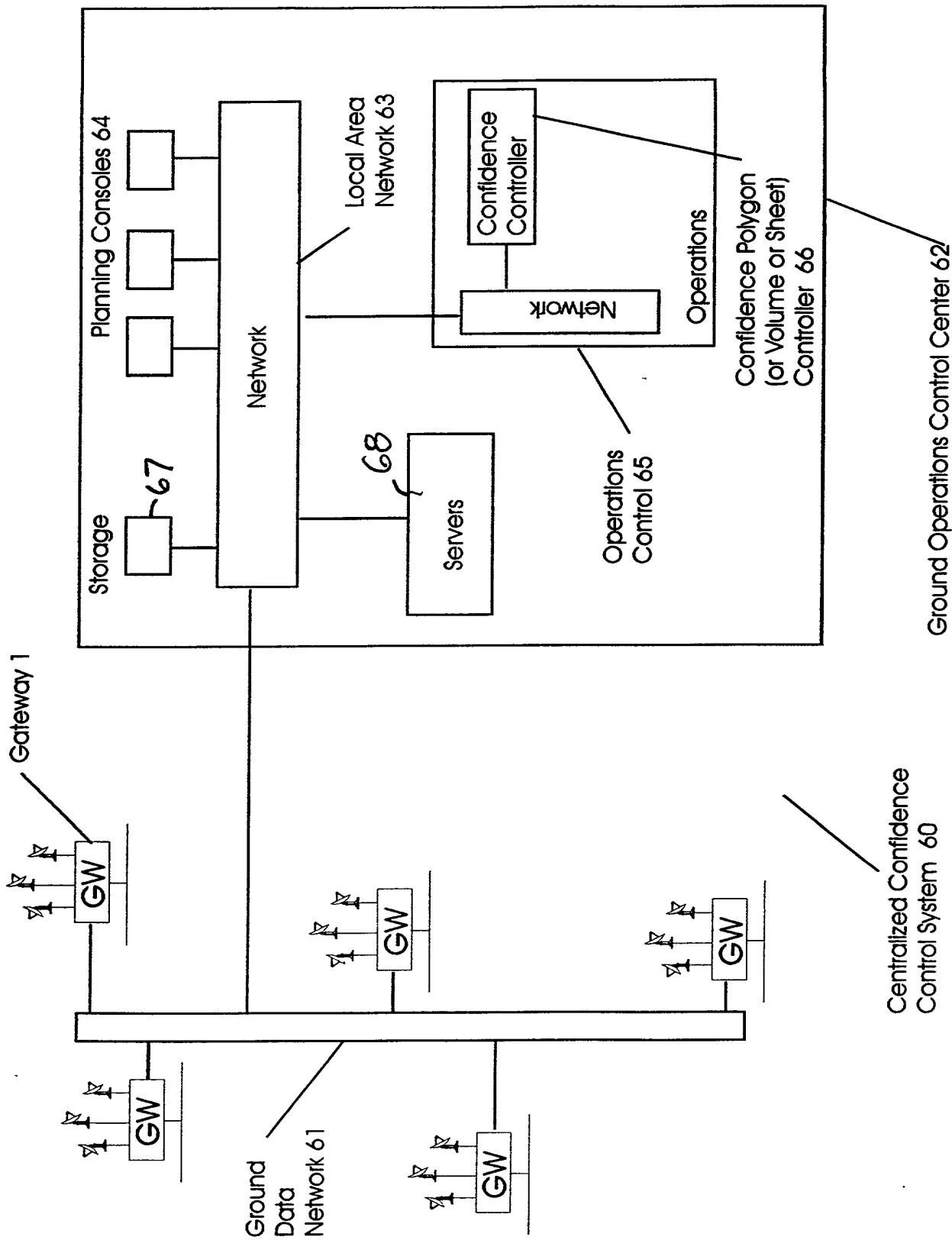


Figure 6
Gateway Sub System

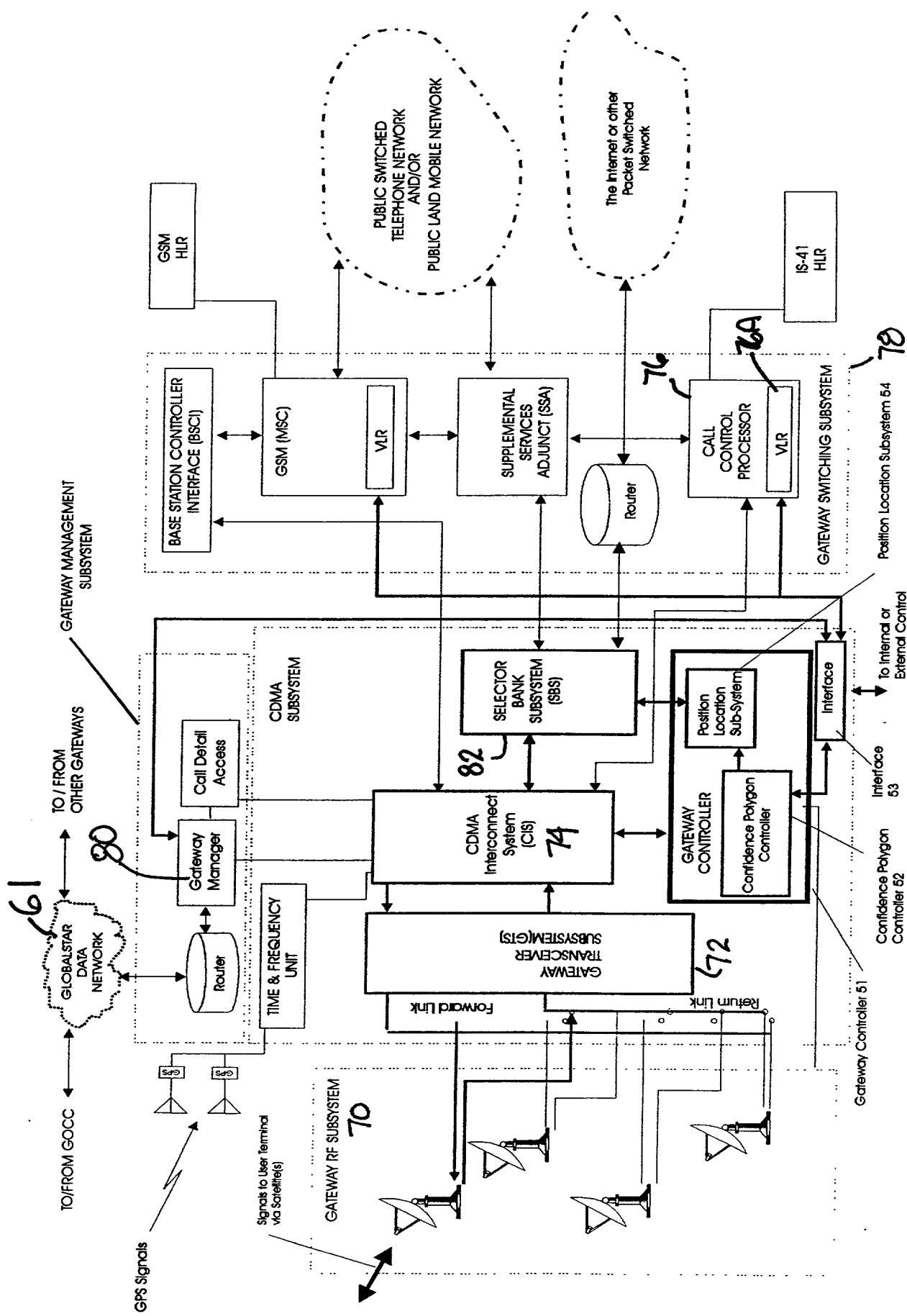


Fig. 7

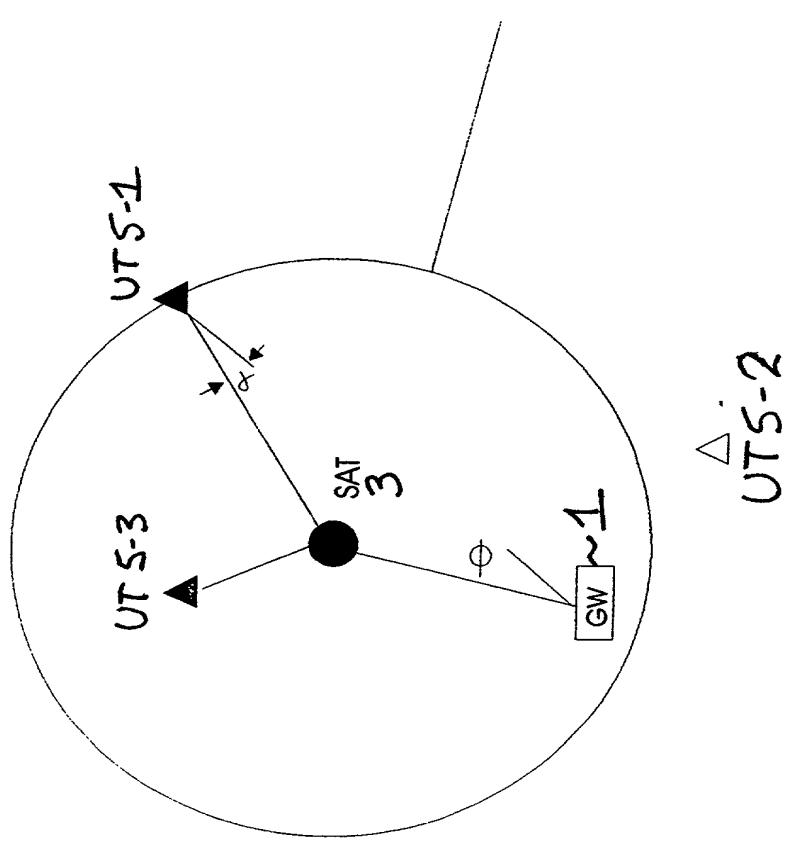
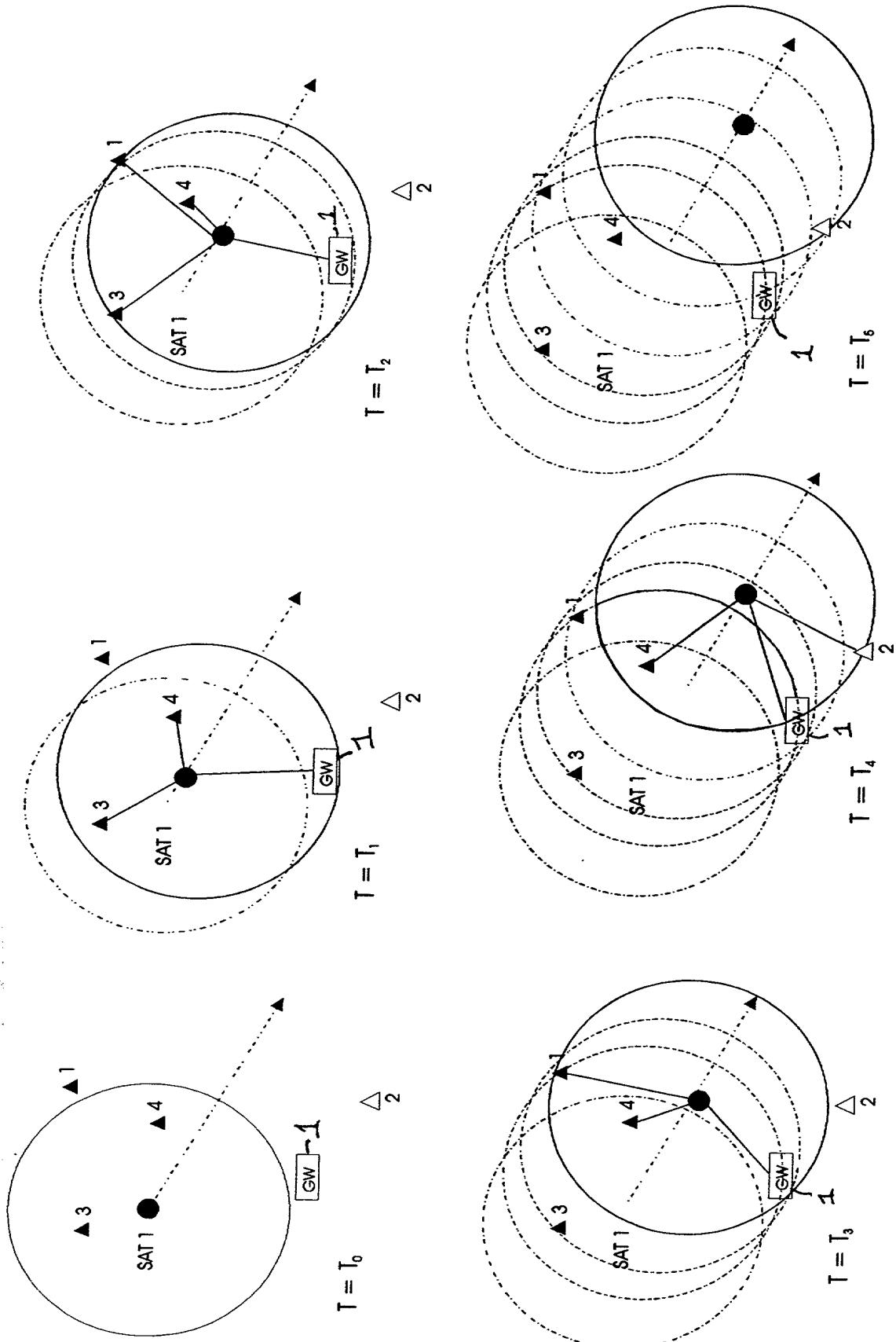
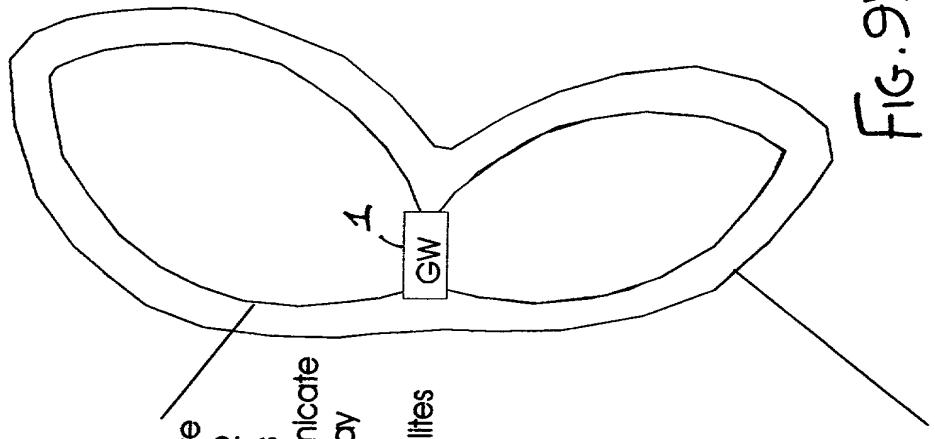


FIG. 8

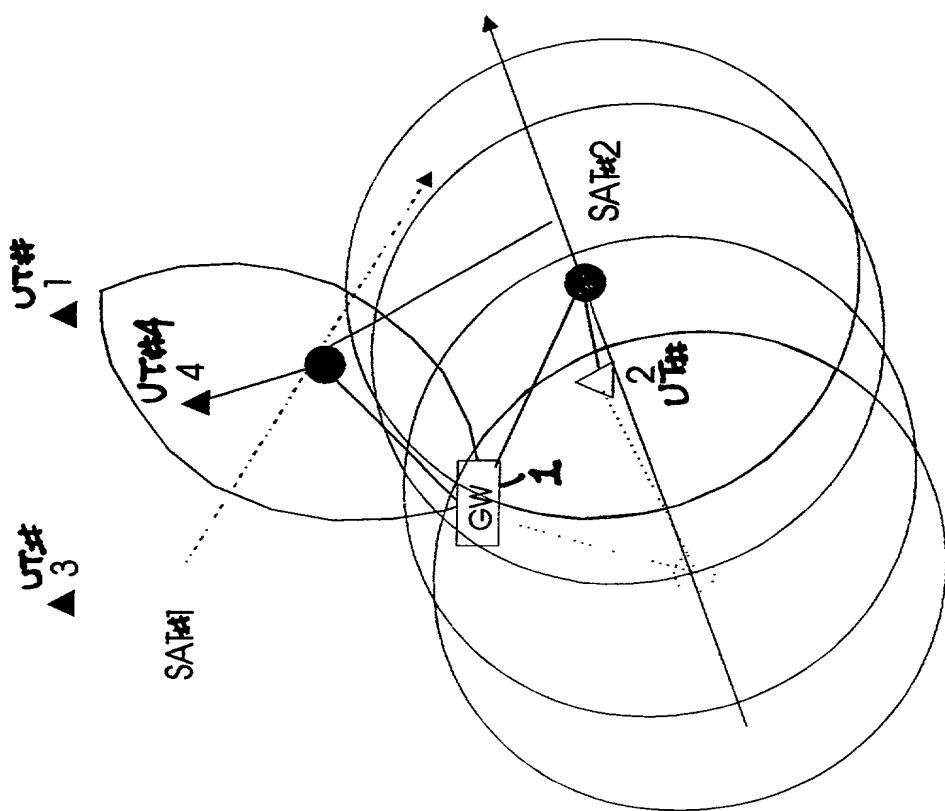




Fixed Region
on Earth where
during t_1 to t_2
User Terminals
may communicate
to the Gateway
100% of the
Time via Satellites
#1 and #2

FIG. 9B

Fixed Region on Earth where
during t_1 to t_2 User Terminals
may communicate to the Gateway
95% of the time



Path of the Coverage of Satellite 2
during the period $t = t_1$ to t_4

FIG. 9A

FIG. 10

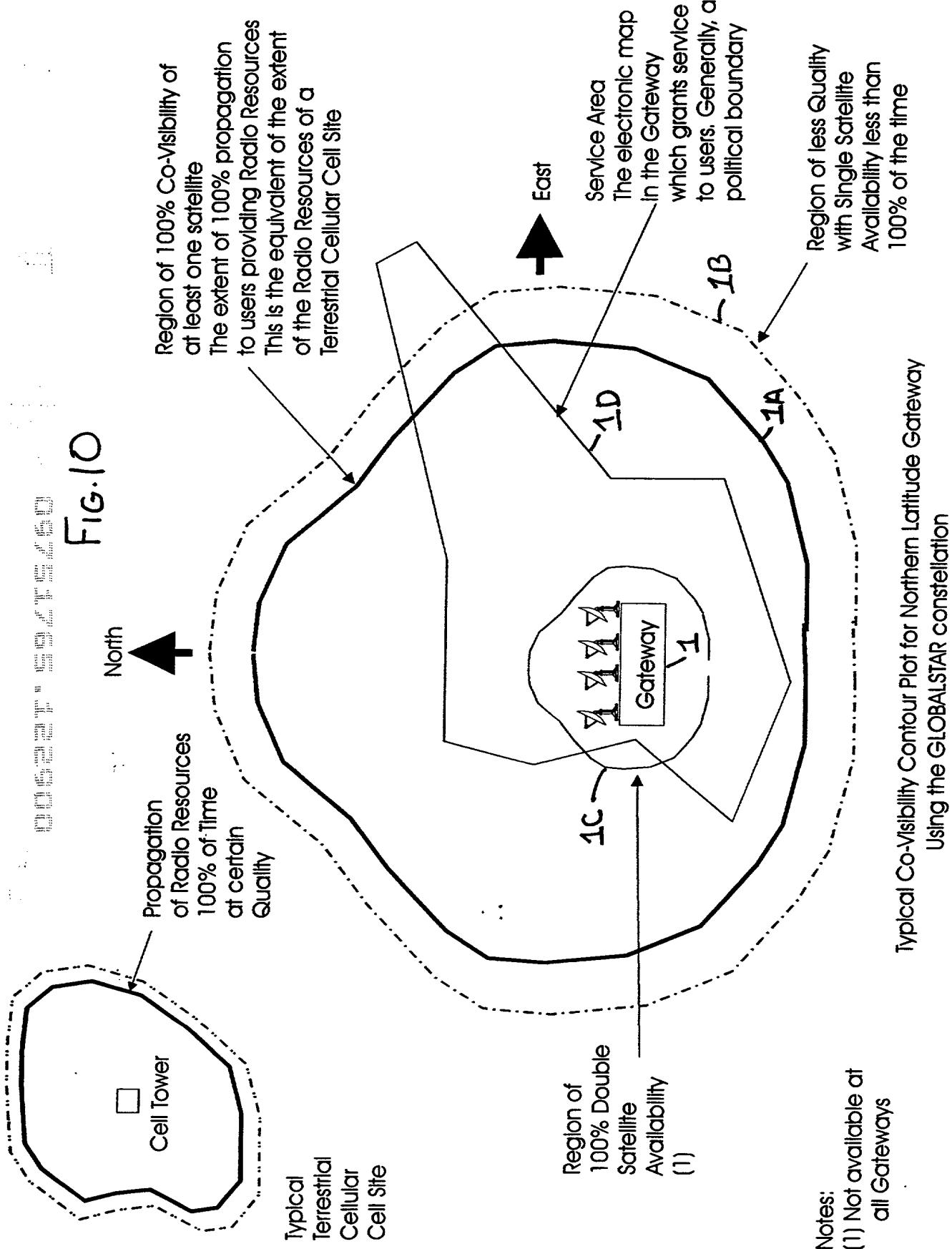
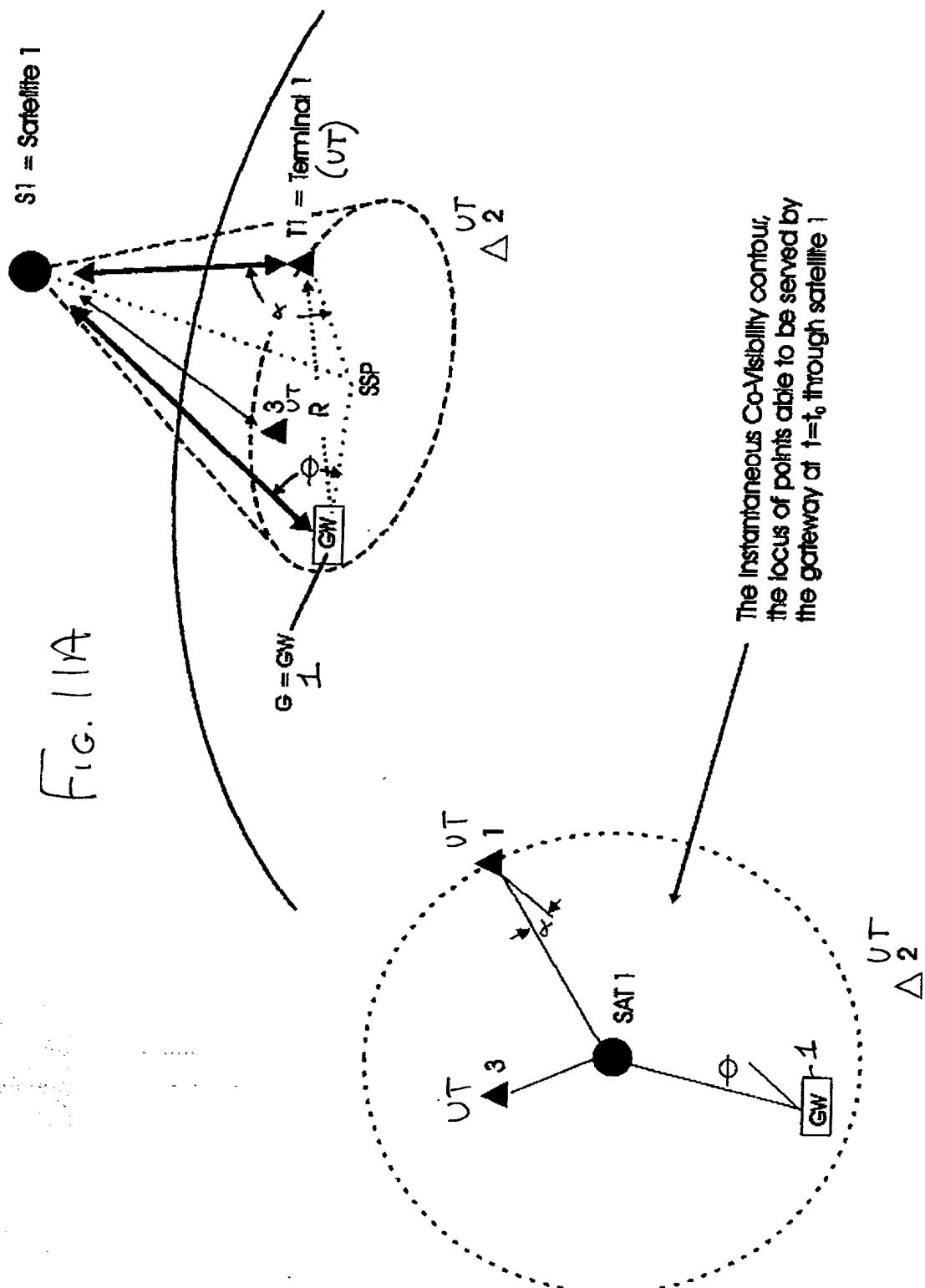
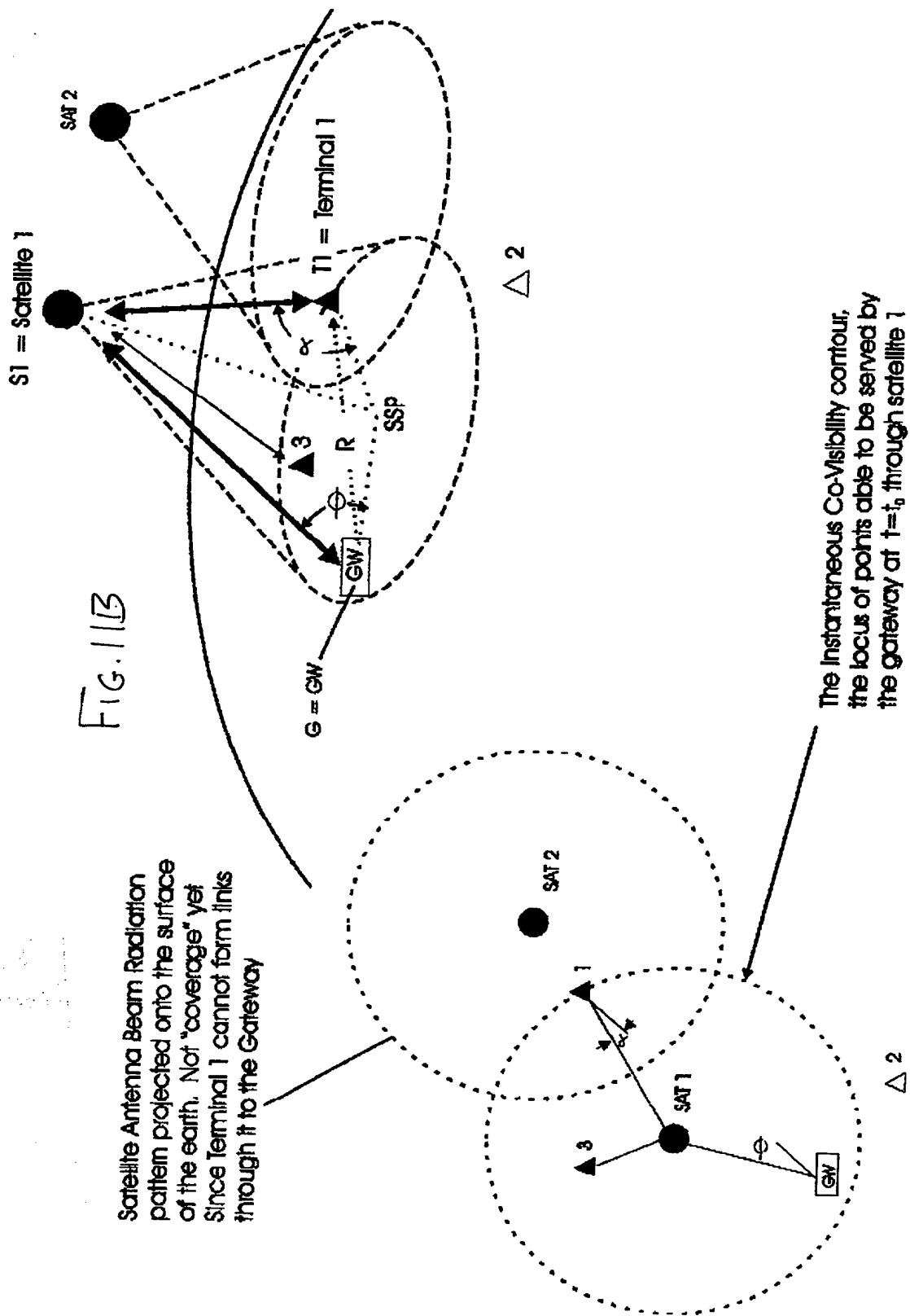


FIG. 11A





Satellite Antenna Beam Radiation
pattern projected onto the surface
of the earth. Not "coverage" yet
Since Terminal 1 cannot form links
through it to the Gateway

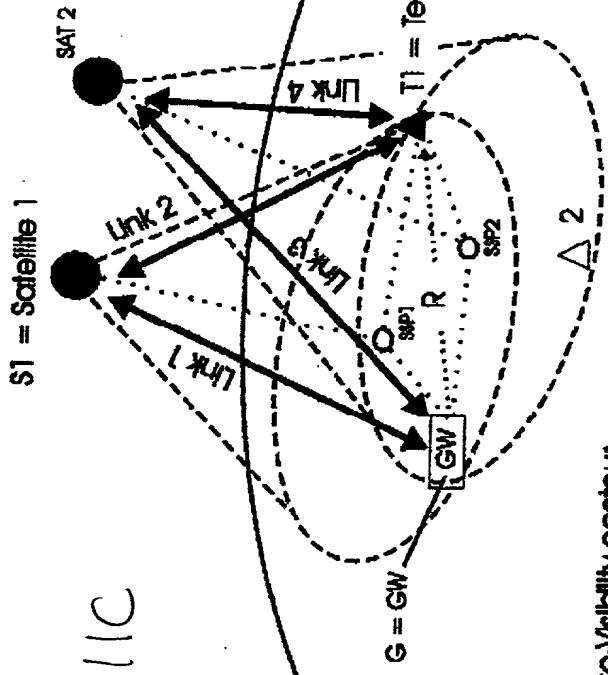
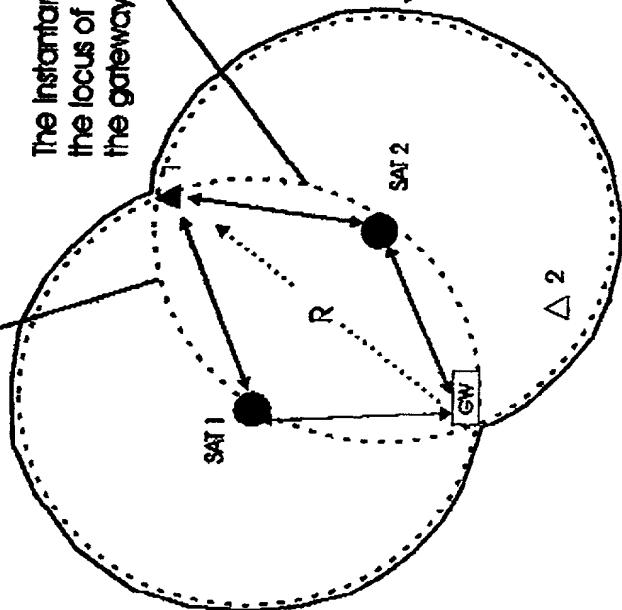


FIG. 11C

The instantaneous Co-Visibility contour
the locus of points able to be served by
the gateway at $t = t_1$ through satellite 2

The instantaneous Co-Visibility contour
the locus of points able to be served by
the gateway at $t = t_1$ through satellite 1



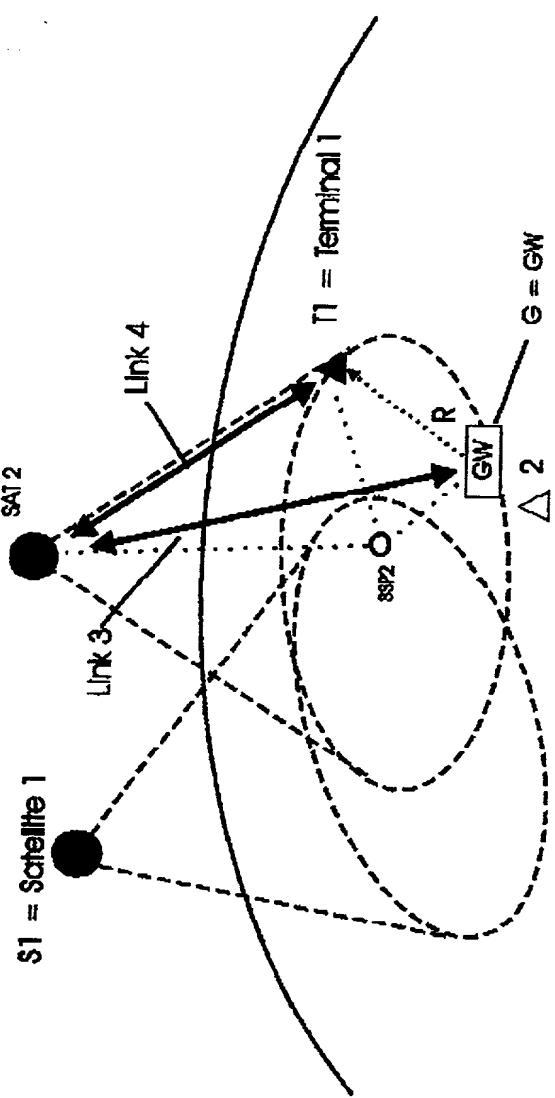


FIG. 11 D

The instantaneous Co-Visibility contour
 the locus of points able to be served by
 the gateway at $t = 2$ through satellite 2

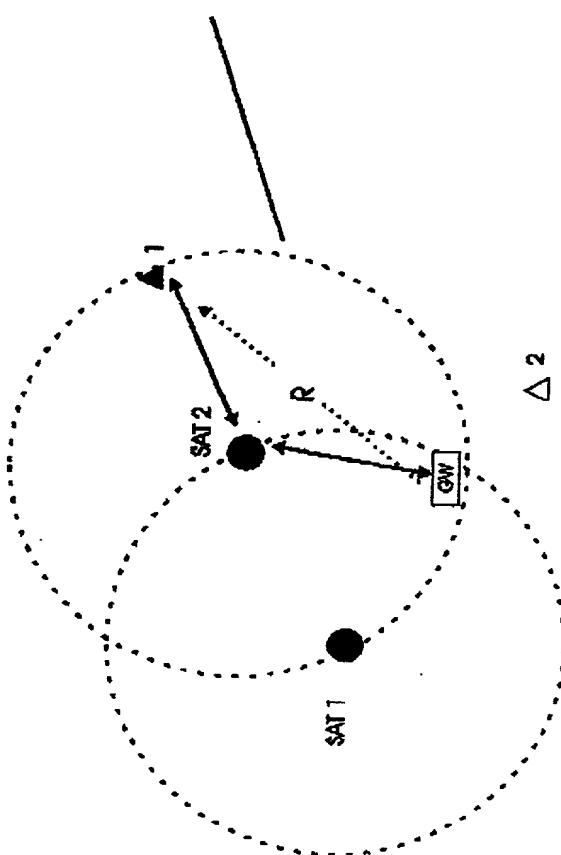


Fig. 11E

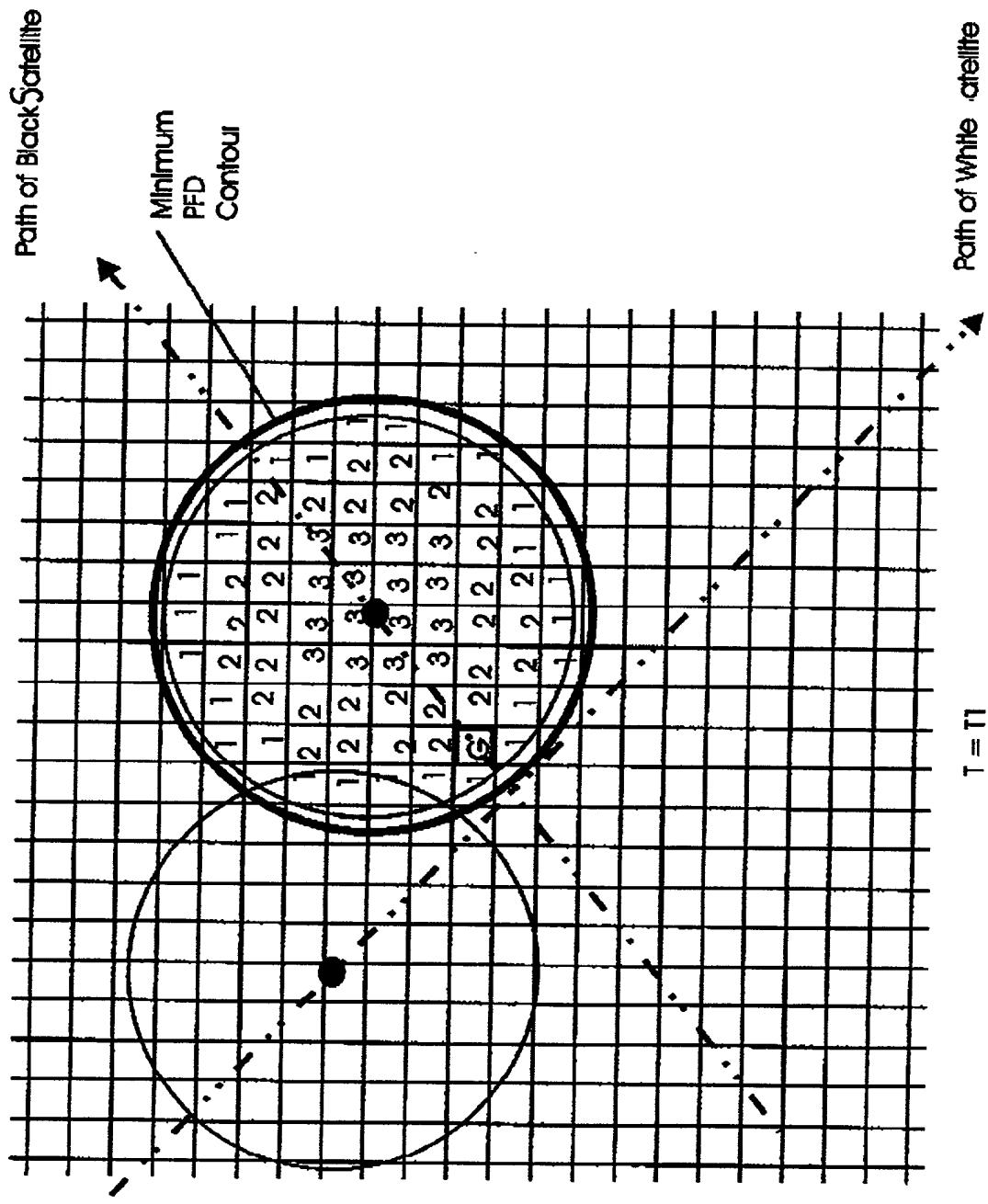


FIG. 1/F

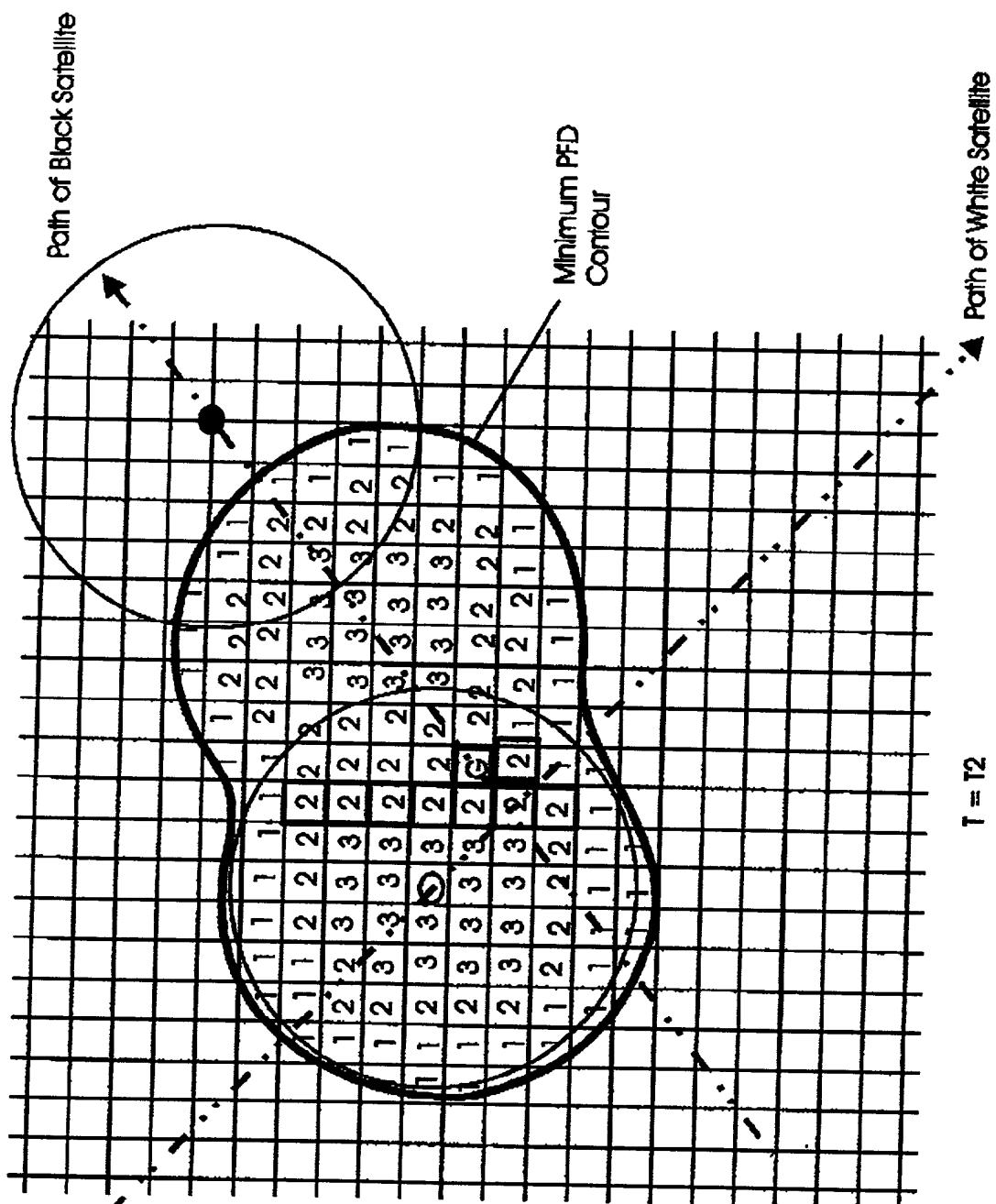


Fig. 11G

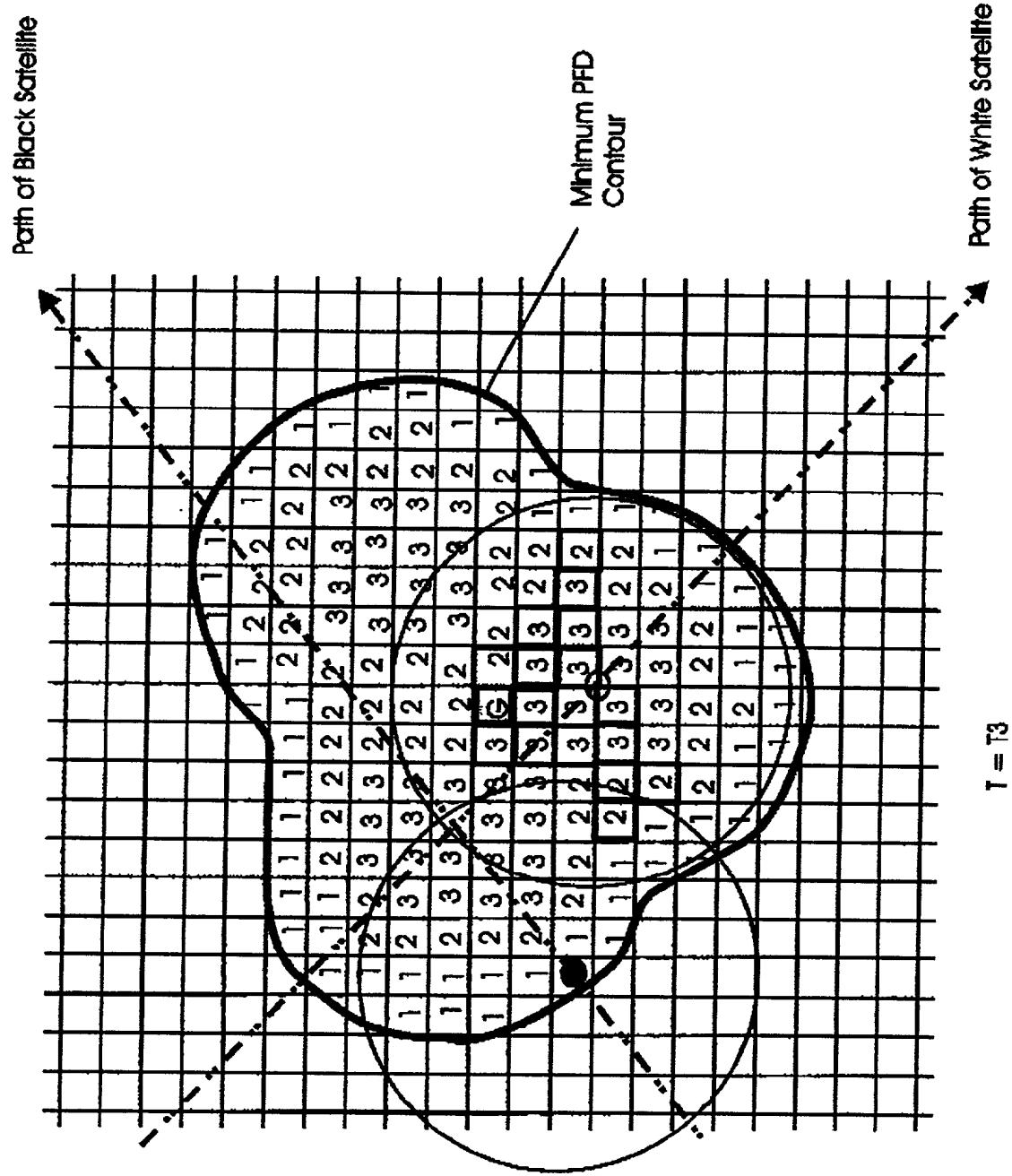


FIG. 11H

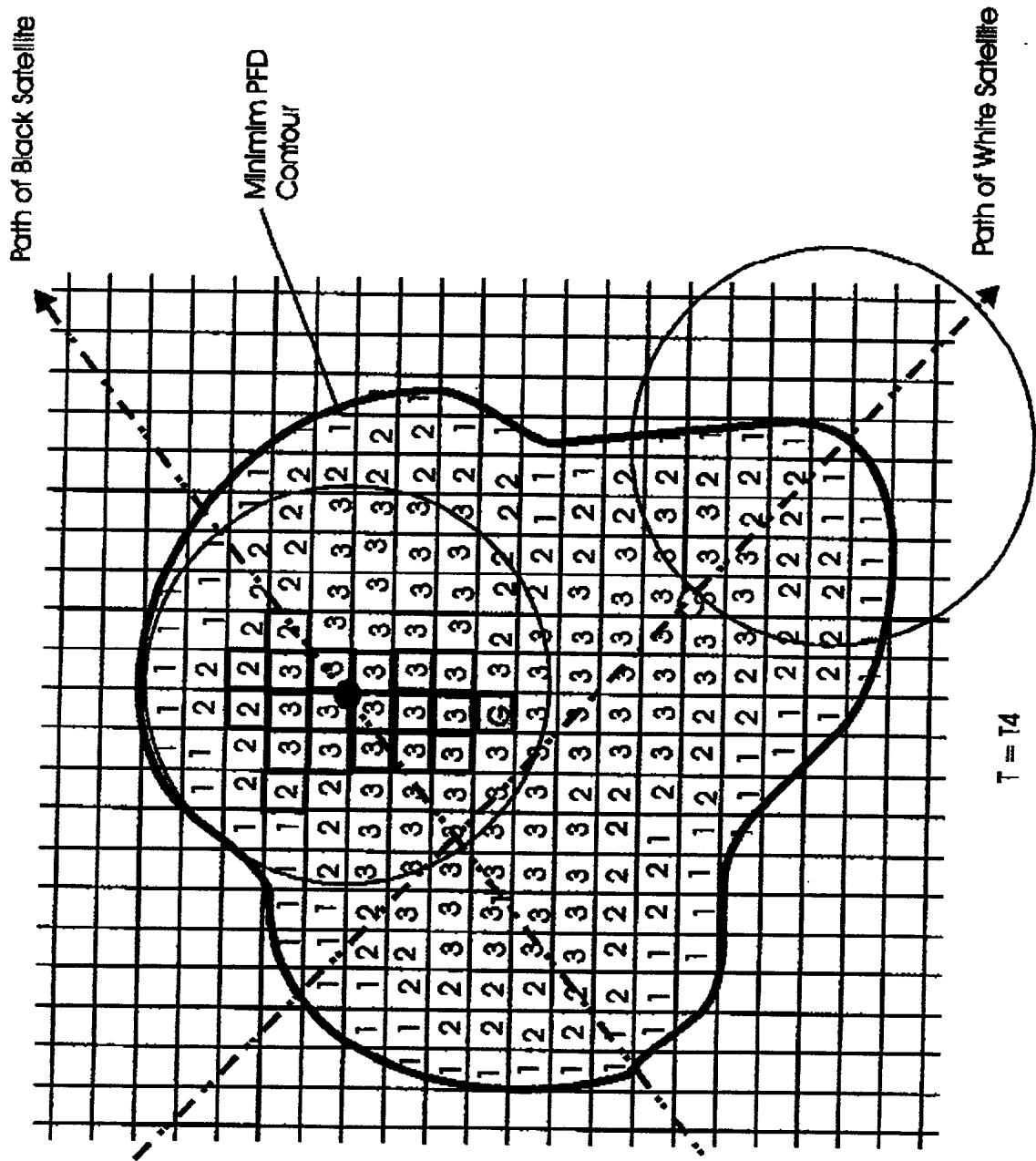


FIG. 1 (I)

